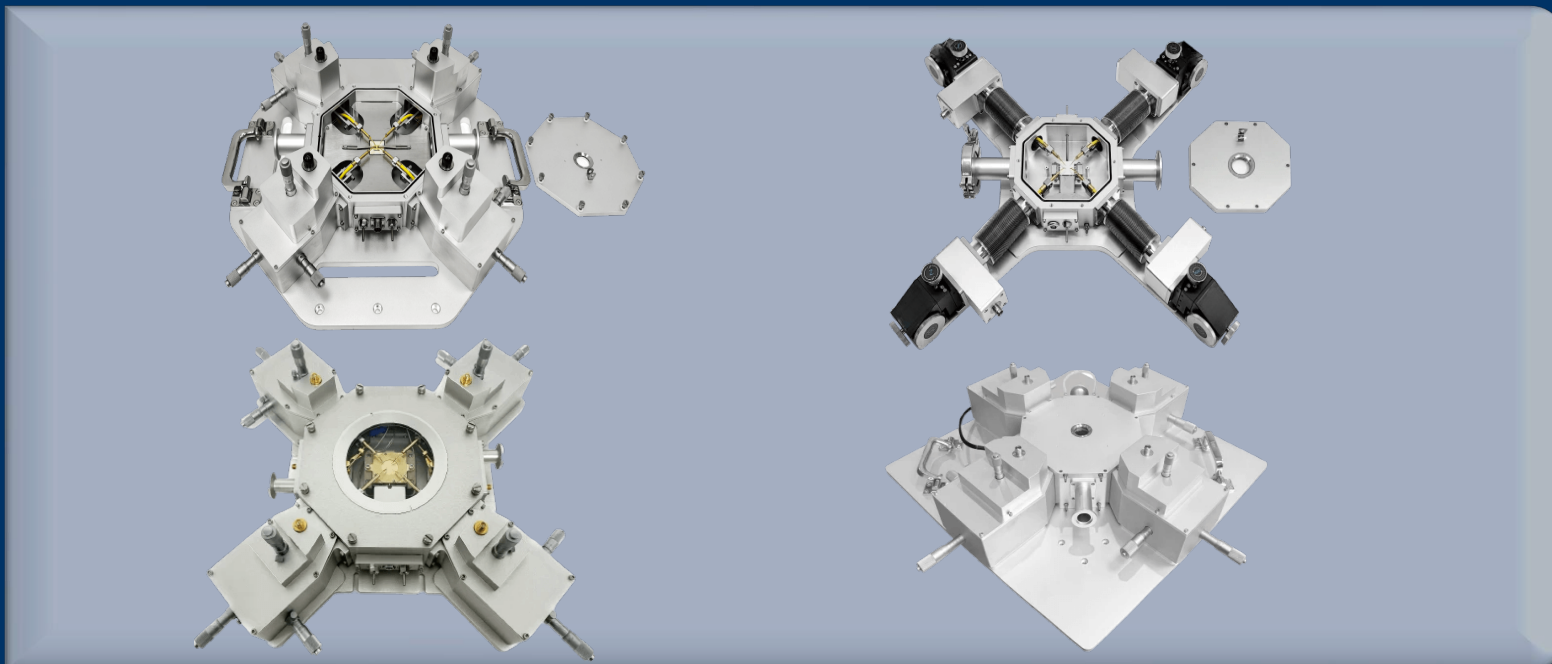


Electrical ExtProbe Stage

Precise stable displacement, wide temperature range.

- High-precision probe adjustment and signal transmission
- Highly stable temperature control and wide scene adaptation
- Vacuum environment and optical compatibility design



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

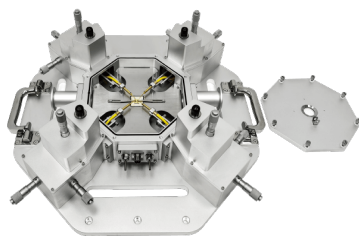
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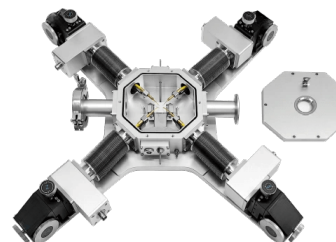
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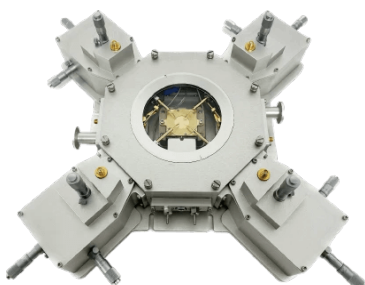
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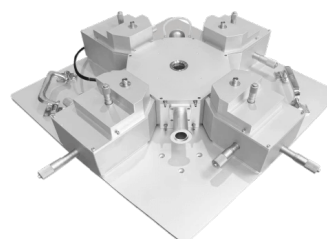
VLE-190-400EM



VLE-190-400EB



VLE-25-120EM



VLE-RT-1000EM

Overview

Product Introduction of ExtProbe Stage:

Designed specifically for variable-temperature in-situ electrical testing, it comes standard with a vacuum chamber (customizable atmosphere chamber) and JGS2 quartz glass windows. It supports reflected light paths and photoelectric synchronous testing, with a temperature stability of ± 0.1 .

Equipped with an XYZ-axis adjustable displacement mechanism (stroke $\pm 6\text{mm} \sim \pm 12.5\text{mm}$), highly conductive probes (tungsten steel gold-plated / tungsten-rhenium coaxial), and triaxial BNC interfaces, it is compatible with instruments such as source meters and LCR bridges. It can cover a temperature range of $-190 \sim 1000$, meeting the needs of in-situ electrical testing in vacuum environments for semiconductors, two-dimensional materials, ceramics and other fields, and supports multi-language SDK custom integration.

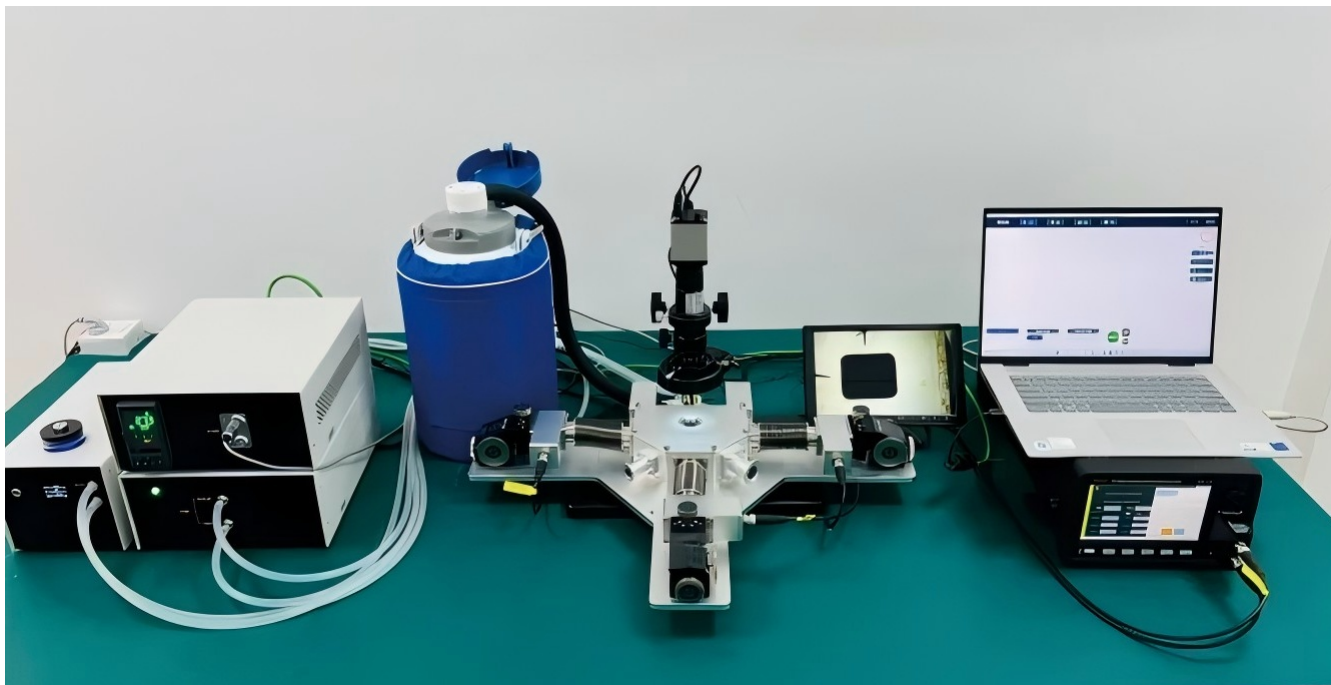
Specifications

Parameter table for 4 models of external adjustment probe stations with the same parameters

Parameter Item	Parameter Value
Temperature Stability	± 0.1
Probe Interface Type	Triaxial BNC Interface
Sample Stage Potential Mode	Ground/Electrically Floating
Basic Chamber Configuration	Vacuum (Customizable Atmosphere Chamber Available)
Optical Path Support	Reflective Optical Path
Window Material	JGS2 Quartz Glass (Transmission Bandwidth: 220nm~2500nm, Removable and Replaceable Manually)
Probe Adjustment Dimension	XYZ Axis
Compatible Instrument Type	Electrical Meters (Source Meters, LCR Bridges, etc.)
Probe Material Type	High-Conductivity Material (Tungsten Steel Gold-Plated/Tungsten-Rhenium Coaxial)

Application

Customize an external regulation probe thermal stage for temperature-varying test research on field-effect transistors/ MOS transistors, etc.



Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Explore Series

Model	Sample Stage	XYZ Axis Stroke	Heating & Cooling Method	Temperature Range
VLE-190-400EM	Silver/23mm×23mm	±6mm	Liquid Nitrogen Cooling + Resistance Heating	-190°C~400°C
VLE-190-400EB	Silver/23mm×23mm	±6mm	Liquid Nitrogen Cooling + Resistance Heating	-190°C~400°C
VLE-25-120EM	Copper/40mm×40mm	±6mm	TEC (Peltier Effect)	-25°C~120°C
VLE-RT-1000EM	Ceramic/20mm×20mm	±12.5mm	Resistance Heating	RT~1000°C

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

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